

Amendments to the Claims:

1. (CURRENTLY AMENDED) A crosstalk and EME (electromagnetic emission) minimizing trace suspension assembly structure comprising:

multiple write lines which are crossed between a preamplifier connection point and slider write contact pads;

multiple read lines driven by preamplifier circuits;

said slider write contact pads, which connect said write lines to said trace suspension assembly structure;

slider read contact pads, which connect said read lines to said trace suspension assembly structure; and

multiple write lines driven by preamplifier circuits,

wherein said multiple write lines which are crossed between said preamplifier connection point and said slider write contact pads are used to cancel out time-delayed (transmission line effects) parts of said crosstalk and said EME, in order to prevent said trace suspension assembly from interfering with circuits external from said trace suspension assembly.

wherein said multiple write lines which are crossed are not used to prevent external circuitry from interfering with said trace suspension assembly.

wherein a single crossing point of said write lines between said preamplifier connection point and said slider write contact pads is placed halfway between said preamplifier connection point and said slider write contact pads.

2. (CANCELED)
3. (CURRENTLY AMENDED) The crosstalk and EME minimizing structure of claim 1 wherein a crossing point of said write line is made by the addition of a metallization layer onto said trace suspension assembly structure.
4. (ORIGINAL) The crosstalk and EME minimizing structure of claim 1 wherein multiple crossing points of said write lines are used to further cancel out time-delayed (transmission line effects) parts of said crosstalk and EME.
5. (ORIGINAL) The crosstalk and EME minimizing structure of claim 1 wherein said write lines have parasitic capacitance between the write lines and the read lines.
6. (ORIGINAL) The crosstalk and EME minimizing structure of claim 5 wherein said parasitic capacitances between the write lines and read lines are used to cancel crosstalk noise between said write lines and said read lines.

7-18. Canceled

19. (CURRENTLY AMENDED) A method of minimizing crosstalk and EME (electromagnetic emission) in a trace suspension assembly structure comprising the steps of:

providing multiple write lines which are crossed between a preamplifier connection point and slider write contact pads;

providing multiple read lines driven by preamplifier circuits;

providing said slider write contact pads, which connect said write lines to said trace suspension assembly structure;

providing slider read contact pads, which connect said read lines to said trace suspension assembly structure; and

providing multiple write lines driven by preamplifier circuits,

wherein said multiple write lines which are crossed between said preamplifier connection point and said slider write contact pads are used to cancel out time-delayed (transmission line effects) parts of said crosstalk and said EME, in order to prevent said trace suspension assembly from interfering with circuits external from said trace suspension assembly,

wherein said multiple write lines which are crossed are not used to prevent external circuitry from interfering with said trace suspension assembly,

wherein a single crossing point of said write lines between said preamplifier connection point and said slider write contact pads is placed halfway between said preamplifier connection point and said slider write contact pads.

20. (CANCELED)

21. (CURRENTLY AMENDED) The method of minimizing crosstalk and EME of claim 19 wherein a crossing point of said write line is made by the addition of a metallization layer onto said trace suspension assembly structure.
22. (ORIGINAL) The method of minimizing crosstalk and EME of claim 19 wherein multiple crossing points of said write lines are used to further cancel out time-delayed (transmission line effects) parts of said crosstalk and EME.
23. (ORIGINAL) The method of minimizing crosstalk and EME of claim 19 wherein said write lines have parasitic capacitance between the write lines and the read lines.
24. (ORIGINAL) The method of minimizing crosstalk EME of claim 23 wherein said parasitic capacitances between the write lines and read lines are used to cancel crosstalk noise between said write lines and said read lines.
- 25-36. Canceled